

## SEQUENCE LISTING

<110> PARANHOS-BACCALA, Glaucia

MALLET, Francois

VOISSET, Cecile

<120> ENDOGENEOUS NUCLEIC ACID FRAGMENT ASSOCIATED WITH AN AUTOIMMUNE DISEASE, LABELING METHOD AND REAGENT

<130> 110048

<140> 09/869,927

<141> 2001-08-17

<150> PCT/FR00/00144

<151> 2000-01-21

<150> FR 99/00888

<151> 1999-01-21

<160> 33

<170> PatentIn version 3.1

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<212> DNA

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Phe Ile Phe Phe Cys Ser Thr Ala Trp Pro Gln Tyr Pro Leu Gln Gly  
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Gln Leu Asp Leu Phe Cys Arg Lys Glu Gly Lys Trp Ser Glu Val Pro  
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Tyr Val Gln Thr Phe Phe Ser Leu Arg Asp Asn Ser Gln Leu Cys Lys  
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Pro Lys Ser Ala Asn Ile Pro Arg Leu Cys Pro Leu Gln Ala Val Arg  
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Asp Gly Tyr Ile Asp Val Leu Gln Gly Leu Gly Gln Ser Phe Asp Leu  
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Pro Thr Gly Gln Gln Ala Val Pro Ser Val Asp Pro His Trp Asp Thr  
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Met Ser Thr Ile Thr Gln Gly Lys Glu Glu Asn Pro Thr Ala Phe Leu  
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Asp Arg Leu Arg Glu Ala Leu Arg Lys His Thr Ser Leu Ser Pro Asp  
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Ser Ile Glu Gly Gln Leu Ile Leu Lys Asp Lys Phe Ile Thr Gln Ser  
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Pro Thr Gly Gln Gln Ala Val Pro Ser Val Asp Pro His Trp Asp Thr  
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Glu Ser Glu His Gly Asp Trp Cys His Lys His Leu Leu Thr Cys Val  
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Met Ser Thr Ile Thr Gln Gly Lys Glu Glu Asn Leu Thr Ala Phe Leu  
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Asp Arg Leu Arg Glu Ala Leu Arg Lys His Thr Ser Leu Ser Pro Asp  
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Ser Ile Glu Gly Gln Leu Ile Leu Lys Asp Lys Phe Ile Thr Gln Ser  
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| ctcacctgga ctgttttacc ccaagggttc agggatagcc cccatctatt  | tggccaggca  | 2340 |

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 gggtacttag ggctaaaatt atccaaaggc accagggccc tcagttagga acacatccag 2580  
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 gtggctttcc aggccctaac ccaagcccca gtgttaagtt tgccaacagg gcaagacttt 2820  
 tcttcatatg tcacagaaaa aacaggaata gctctaggag tccttacaca gatccgaggg 2880  
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<210> 22

<211> 1422

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (879)..(879)

<223> n = a or g or c or t/u

<220>

<221> misc\_feature

<222> (1200)..(1200)

<223> n = a or g or c or t/u

<400> 22

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ccttgtgcc tcaagccacc caagcactct taaatttctt cgccacctgt ggctacaagg 180



|  |      |
|--|------|
| tttccaaaga gaagctcagc tctgctcaca gcagggtaaa tacttaggac taagattatc  | 240  |
| caaaggcacc aaggccctca gtgaggaatg tatccagcct atactggctt atcctcatct  | 300  |
| caaaacccta aagcaactaa gagagttcct tggcataaca ggcttctgcc gaatatggat  | 360  |
| tccccaggta tggcaaaata gccaggccat tatatacagt aattaaggaa actcagaaag  | 420  |
| ccaataccca ttttaataaga tggatacctg aagccaaagt ggctttccag gcccttaaag | 480  |
| aaggccttaa acccaagtcc cagtgttaag cttgccaacg gggcaagact tttctttata  | 540  |
| catcacagaa aaaaacagaa acagctctgg gagtccttac acagggtccaa gggacgagct | 600  |
| tgcaacccat ggcatacctg agtaaggaaa ctgatgtagt ggcaaagggt tggcttcatt  | 660  |
| gtttatgggt agtggtggca gtagcagttg tagtatctga agcaggtaaa ataatacagg  | 720  |
| ggagagatct tactgtgtgg acatctcatg aggtgaacag catactcact gctaaaggag  | 780  |
| acttgtggct gtcagacaac cgtttactta aatatcaggc tctattactt gaaaggccag  | 840  |
| tgctgcaact gtgcacttgt gcaactctta acccagtcnc atttcttcca gacaatgaag  | 900  |
| atagaatata actgtcaaca aataatttct caaacctatg ccaactcgagg ggaccttcta | 960  |
| gaagttccct tgactgatcc tgaccttcaa cttgtatact gatggaagtt cttttgtaga  | 1020 |
| aaaaggactt caaaagcggg gtatgcagtg gtcagtgata atggaatatt tgaaagtatc  | 1080 |
| ccctcactcc aggaactagt gcttagctgg cagaactaat agccttcatt ggggcactag  | 1140 |
| aattaggaga aggaaaaagg gtaaataatat atacagactc tgagtatgct cacctagtcn | 1200 |
| tccatgcccc tgaggcaata tgcagagaaa gggaattcct aacttccgag ggaacaccta  | 1260 |
| tcacacatca ggaagccatt aggagattat tactggcagt acagaaacct aaagaggtgg  | 1320 |
| aagtcttaca ctgctgggggt catcagaaag gaaagaaaag ggaaatagaa gggaattgcc | 1380 |
| aagcagatat tgaagcaaaa agagctgcaa ggcaggaccc tc                     | 1422 |

<210> 23

<211> 2006

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (305)..(305)

<223> n = a or g or c or t/u

<400> 23

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| atgcagtggt | cagtgataat  | ggaatacttg  | aaagtaatcc  | cctcaactcca | ggaactagtg  | 60   |
| ctcagctagc | agaactaata  | gccctcactt  | gggcactaga  | attaggagaa  | gaaaaaaggg  | 120  |
| caaatatata | tacagactct  | aaatatgctt  | acctagtcct  | ccatgcccac  | gcagcaatat  | 180  |
| ggaaagaaag | ggaattccta  | acttctgaga  | gaacacctat  | caaacatcag  | gaagccatta  | 240  |
| ggaaattatt | attggctgta  | cagaaaccta  | aagaggtggc  | agtcttacac  | tgccggggtc  | 300  |
| atcanaaagg | aaaggaaagg  | gaaaatactt  | ttgcctgcaa  | ctatccaatg  | gaaattactt  | 360  |
| aaaacccttc | atcaaaccct  | tcacttaggc  | atcgatagca  | cccatcaaata | ggccaaatca  | 420  |
| ttatttactg | gaccaggcct  | tttcaaaact  | atcaagcaaa  | tattcagggc  | ctgtgaattg  | 480  |
| tgccaaaaaa | ataatccct   | gcctcatcgc  | caagctcctt  | caggaaaaca  | aaaaacaggc  | 540  |
| cattaccctg | aaaaaaaactg | gcaactgatt  | ttaccacaaa  | gcccaaaccct | cagggatttc  | 600  |
| agtatctact | agtctgggta  | aatactttca  | cggggtgggc  | aaaggccttc  | ccctgtagga  | 660  |
| cagaaaaggc | ccaagaggta  | ataaaggcac  | tagttcatga  | aataattccc  | agattcggac  | 720  |
| ttccccgagg | cttacagagt  | gacaatagcc  | ctgctttcca  | ggccacagta  | accagggag   | 780  |
| tatcccaggc | gtaggtata   | cgatatcact  | tacactgctc  | ctgaaggcca  | cagtcctcag  | 840  |
| ggaaggtcga | gaaaatgaat  | gaaatactca  | aaggacatct  | aaaaaagcaa  | accaggaaa   | 900  |
| cccacctcac | atggcctgct  | ctgttgcta   | tagccttaaa  | agaatctgc   | aactttcccc  | 960  |
| aaaaagcagg | acttagccca  | tacgaaatgc  | tgtatggaag  | gcccttcata  | accaatgacc  | 1020 |
| ttgtgcttga | ccaagacag   | ccaacttagt  | tgcagacatc  | acctccttag  | ccaaatatca  | 1080 |
| acaagttctt | aaaacattac  | aaggaaccta  | tccctgagaa  | gagggaaaag  | aactattcca  | 1140 |
| cccttgtagc | atggtattag  | tcaagtcctt  | tctctctaata | tcccatccc   | tagatacatc  | 1200 |
| ctgggaagga | ccctaccag   | tcattttatt  | taccccaact  | gcggttaaag  | tggtctggagt | 1260 |
| ggtcttgat  | acatcacact  | tgagtcaaata | cctggatact  | gccaaaggaa  | cctgaaaatc  | 1320 |
| caggagacaa | cgtagctat   | tcctgtgaac  | ctctagagga  | tttgcgctg   | ctcttcaaac  | 1380 |
| aacaaccagg | aggaaagtaa  | ctaaaatcat  | aaatcccca   | tgccctccc   | ttatcatatt  | 1440 |
| tttctcttta | ctgttctttt  | accctctttc  | actctcactg  | cacccctcc   | atgccgctgt  | 1500 |
| atgaccagta | gctcccctta  | ccaagagttt  | ctatggagaa  | tgcagcgtcc  | cggaatatatt | 1560 |

gatgccccat cgtataggag tctttctaag ggaacccccca ctttcaactgc ccacacccat 1620  
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catgtaaaag aagtaatctc ccaactcacc cgggtacatg gcacctctag ccctacaaag 1860  
gactagatct ctcaaaacta catgaaaccc tccgtaccca tactcgacctg gtaagcctat 1920  
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<210> 24

<211> 1948

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (84)..(84)

<223> n = a or g or c or t/u

<220>

<221> misc\_feature

<222> (193)..(193)

<223> n = a or g or c or t/u

<220>

<221> misc\_feature

<222> (241)..(241)

<223> n = a or g or c or t/u

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ggtgtccgct gtgctcctga tccagcgagg cgcccattgc cgctcccaat tgggctaaag 180  
gcttgccatt gtncctgcac ggctaagtgc ctgggtttgt tctaattgag ctgaacacta 240  
ntcactgggt tccatggttc tcttctgtga cccacggctt ctaatagaac tataacactt 300  
accacatggc ccaagattcc attccttga atccgtgagg gcaagaactc caggtcagag 360  
aatacgaggc ttgccaccat cttggaagcg gcctgctacc atcttggaag tggttcacca 420  
ccatcttggg agctctgtga gcaaggacc cccggtaaca ttttggaac cacgaacgga 480  
catccaaagt gatacatcct ggaaggacc ctaccagtc attttatcta cccaactgc 540  
ggttaaagtg gctggagtgg agtcttggat acatcacact tgagtcaaat cctggatact 600  
gccaaaggaa cctgaaaatc caggagacaa cgctagctat tcctgtgaac ctctagagga 660  
tttgcgcctg ctcttcaaac aacaaccagg aggaaagtaa ctaaaatcat aaatccccat 720  
ggcctccct tatcatattt ttctctttac tgttgtttca ccctctttca ctctactgc 780  
acccctcca tgccgctgta tgaccagtag ctccccttac caagagtttc tatggagaat 840  
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cttactgcc cacaccata tgccccgcaa ctgctatcac tctgccactc tttgcatgca 960  
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caatactaca tacacaacca actcccaatg catcagggtg gtaactcctc ccacacaaat 1500  
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|            |             |            |            |            |             |      |
|------------|-------------|------------|------------|------------|-------------|------|
| aacctctact | cagttctact  | acaaactatc | tcaagaacta | aatggggaca | tggaacgggt  | 1800 |
| cgccgactcc | ctggtcacct  | tgcaagatca | acttaactcc | ctagcagcag | tagtccttca  | 1860 |
| aaatcgaaga | gcttttagact | tgctaaccgc | tgaaagaggg | ggaacctgtt | tattttttagg | 1920 |
| ggaagaatgc | tgttattatg  | ttaatcaa   |            |            |             | 1948 |

<210> 25

<211> 1136

<212> DNA

<213> Homo sapiens

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| <400> 25   |            |            |            |            |            |      |
| ccatggccat | ctacactgaa | caagatttat | acagttatgt | catatctaag | ccccgcaaca | 60   |
| aaagagtacc | cattcttcct | tttgttatag | gagcaggagt | gctaggtgca | ctaggtactg | 120  |
| gcattggcgg | tatcacaacc | tctactcagt | tctactacaa | actatctcaa | gaactaaatg | 180  |
| gggacatgga | acgggtcgcc | gactccctgg | tcaccttgca | agatcaactt | aactccctag | 240  |
| cagcagtagt | ccttcaaaat | cgaagagctt | tagactcgct | aaccgctgaa | agagggggaa | 300  |
| cctgtttatt | tttaggggaa | gaatgctgtt | attatgttaa | tcaatccgga | atcgtcactg | 360  |
| agaaagttaa | agaaattcga | gatcgaatac | aacgtagagc | agaagagctt | cgaaacactg | 420  |
| gaccctgggg | cctcctcagc | caatggatgc | cctggattct | ccccttctta | ggacctctag | 480  |
| cagctataat | attgctactc | ctctttggac | cctgtatctt | taacctcctt | gttaactttg | 540  |
| tctcttccag | aatcgaagct | gtaaaactac | aaatggagcc | caagatgcag | tccaagacta | 600  |
| agatctaccg | cagaccctg  | gaccggcctg | ctagcccacg | atctgatgtt | aatgacatca | 660  |
| aaggcacccc | tcttgaggaa | atctcagctg | cacaacctct | actacgcccc | aattcagcag | 720  |
| gaagcagtta | gagcggtcgt | cggccaacct | ccccaacagc | acttaggttt | tctgttgag  | 780  |
| atgggggact | gagagacagg | actagctgga | tttcctaggc | tgactaagaa | tcctaagcc  | 840  |
| tagctgggaa | ggtgaccaca | tccaccttta | aacacggggc | ttgcaactta | gttcacacct | 900  |
| gaccaatcag | agagctcact | aaaatgctaa | ttaggcaaag | acaggaggta | aagaaatagc | 960  |
| caatcatcta | ttgcatgaga | gcacagcagg | agggacaatg | atcgggatat | aaacccaagt | 1020 |
| cttcgagccg | gcaacggcaa | cccccttgg  | gtcccctccc | tttgtatggg | agctctgttt | 1080 |
| tcatgctatt | tcactctatt | aaatcttgca | gctgcgaaaa | aaaaaaaaaa | aaaaaa     | 1136 |

<210> 26

<211> 2782

<212> DNA

<213> Homo sapiens

<400> 26

|             |             |            |             |             |            |      |
|-------------|-------------|------------|-------------|-------------|------------|------|
| atgggagctg  | ttttcatgct  | atttcactct | attaaatctt  | gcaactgcac  | tcttctggtc | 60   |
| catgtttctt  | acggctcgag  | ctgagctttt | gctcacgctc  | caccactget  | gtttgccacc | 120  |
| accgcagacc  | tgccgctgac  | tcccatccct | ctggatcctg  | caggggtgtcc | gctgtgctcc | 180  |
| tgatccagcg  | aagcgcccat  | tgccgctccc | aattgggcta  | aaggcttgcc  | attgttcctg | 240  |
| cacggctaag  | tgccctgggtt | tgttctaatt | gagctgaaca  | ctagtcaactg | ggttccatgg | 300  |
| ttctcttctg  | tgaccacagg  | cttctaatag | aactataaca  | cttaccacat  | ggcccaagat | 360  |
| tccattcctt  | ggaatccgtg  | aggccaacga | actccaggctc | agagaatacg  | aagcttgcca | 420  |
| ccatcttgga  | agcggcctgc  | taccatcttg | gaagtgggttc | accaccatct  | tgggagctct | 480  |
| gtgagcaagg  | accccccggt  | gacatttttg | cgaccaccaa  | cggacatccc  | aagtgataca | 540  |
| tcctgggaag  | gaccctaccc  | agtcatttta | tctaccccaa  | ctgcggttaa  | agtggctgga | 600  |
| gtggagtctt  | ggatacatca  | cacttgagtc | aaatcctgga  | tactgccaaa  | ggaacctgaa | 660  |
| aatccaggag  | acaacgctag  | ctattcctgt | gaacctctag  | aggatttgcg  | cctgctcttc | 720  |
| aaacaacaac  | caggaggaaa  | gtaactaaaa | tcataaatcc  | ccatgggcct  | cccttatcat | 780  |
| atTTTTctct  | gtagtgttct  | ttcaccctgt | ttcactctca  | ctgcaccccc  | tccatgccgc | 840  |
| tgtatgacca  | gtagctcccc  | tcaccagag  | tttctatgga  | gaatgcagcg  | tcccggaaat | 900  |
| attgatgccc  | catcgtatag  | gagtctttct | aagggaaccc  | ccaccttcac  | tgccacaccc | 960  |
| catatgcccc  | gcaactgcta  | tactctgcc  | actctttgca  | tgcatgcaaa  | tactcattat | 1020 |
| tggacaggaa  | aaatgattaa  | tcctagtgtg | cctggaggac  | ttggagtcac  | tgtctgttgg | 1080 |
| acttacttca  | cccaaactgg  | tatgtctgat | gggggtggag  | ttcaagatca  | ggcaagagaa | 1140 |
| aaacatgtaa  | aagaagtaat  | ctcccaactc | accgggggtac | atggcacctc  | tagcccctac | 1200 |
| aaaggactag  | atctctcaaa  | actacatgaa | accctccgta  | cccatactcg  | cctggtaagc | 1260 |
| ctattttaata | ccaccctcac  | tgggctccat | gaggtctcgg  | cccaaaaccc  | tactaactgt | 1320 |
| tggatatgcc  | tccccctgaa  | cttcaggcca | tatgtttcaa  | tccctgtacc  | tgaacaatgg | 1380 |

09869927.031201

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ggacaatgat cgggatataa acccaagttt tcgagccggc aacggcaacc ccctttgggt 2700  
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<210> 27

<211> 666

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (119)..(119)

<223> n = a or g or c or t/u

<400> 27

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| tgtccgctgt gtcctgata cagcgaggcg cccattgccg ctcccaattg ggctaaaggc  | 60  |
| ttgccattgt tctgcacgg ctaagtgcct gggtttggtc taattgagct gaacactant  | 120 |
| cactgggttc catggttctc ttctgtgacc cagggttct aatataacta taacacttac  | 180 |
| cacatggccc aagattccat tccttggaat ccgtgaggcc aagaactcca ggtcagagaa | 240 |
| tacgaggctt gccaccatct tggaagcggc ctgctaccat cttggaagtg gttcaccacc | 300 |
| atcttgggag ctctgtgagc aaggaccccc cggtaacatt ttggcaacca cgaacggaca | 360 |
| tccaaagtga atcgaagctg taaaactaca aatggagccc aagatgcagt ccaagactaa | 420 |
| gatctaccgc agacccttg accggcctgc tagcccacga tctgatgtta atgacatcaa  | 480 |
| aggcaccct cctgaggaaa tctcagctgc acaacctcta ctacgcccc attcagcagg   | 540 |
| aagcagttag agcggtcgtc ggccaacctc cccaacagca cttaggtttt cctgttgaga | 600 |
| tgggggactg agagacagga ctagctggat ttcctaggct gactaagaat ccctaagcct | 660 |
| agctgg  | 666 |

<210> 28

<211> 3372

<212> DNA

<213> Homo sapiens

<400> 28

|   |     |
|---|-----|
| gacttcccaa ataccagagg aagcagagtg gtttacagtc ctggaccttc aggatgcctt | 60  |
| cttctgcata cctgtacata ctgactctca attcttgttt gcctttgaag atacttcaaa | 120 |
| cccagcatct caactcacct ggactatttt accccaaggg ttcagggata gtccccatct | 180 |
| atttggccag gcattagccc aagacttgag ccaatcctca tacctggaca cttgtccttc | 240 |
| ggtaggtgga tgatttactt ttggccgccc attcagaaac cttgtgccat caagccaccc | 300 |



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Glu Thr Trp Leu Pro Glu Gly Ser Ile Asn Tyr Asn Ile Ile Leu Gln  
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Leu Asp Leu Phe Cys Arg Lys Glu Gly Lys Trp Ser Glu Val Pro Tyr  
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Val Gln Thr Phe Phe Ser Leu Arg Asp Asn Ser Gln Leu Cys Lys Lys  
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Gly Glu Phe Gly Pro Ala Arg Val Pro Val Pro Phe Ser Leu Ser Asp  
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Gly Tyr Ile Asp Val Leu Gln Gly Leu Gly Gln Ser Phe Asp Leu Thr  
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